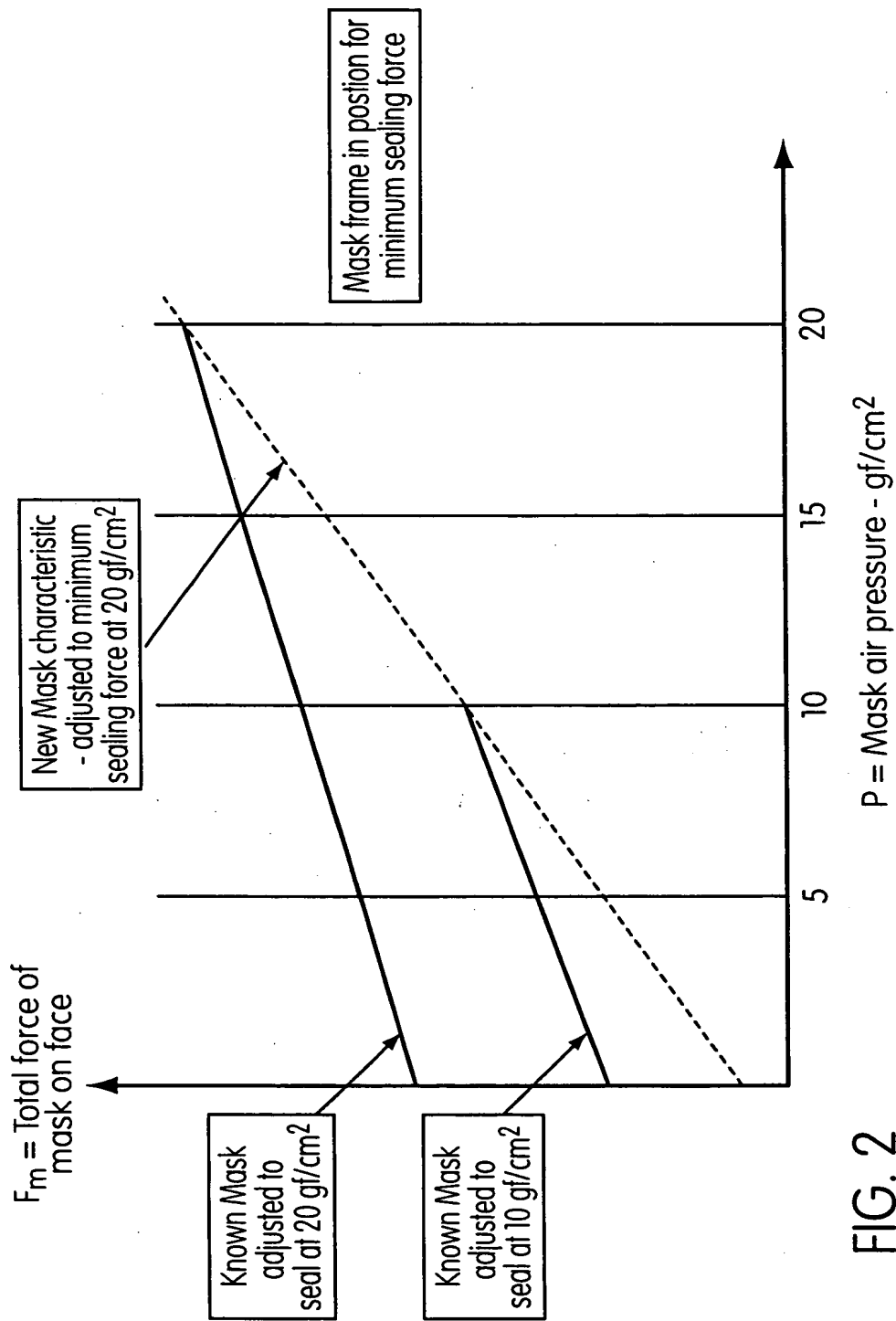


FIG. 1
 PRIOR ART



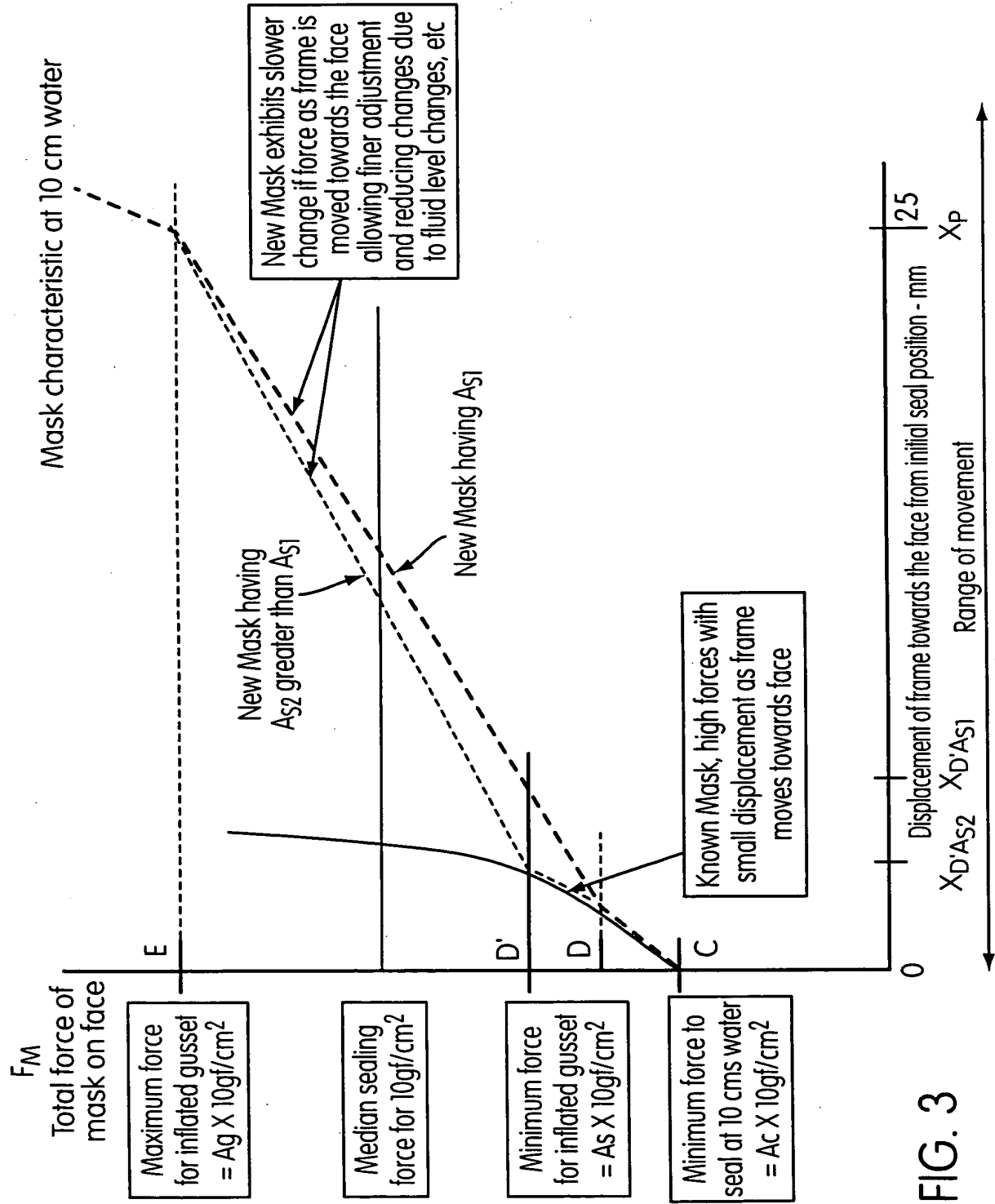
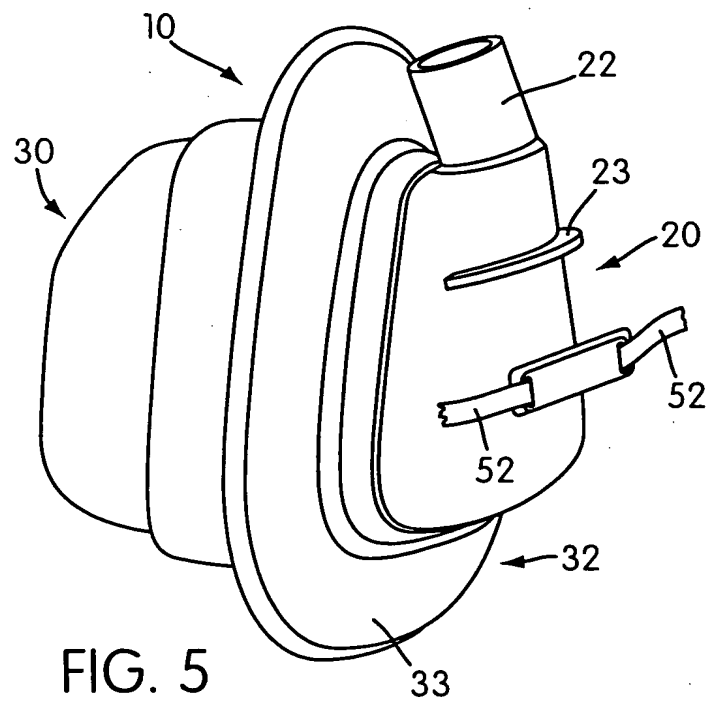
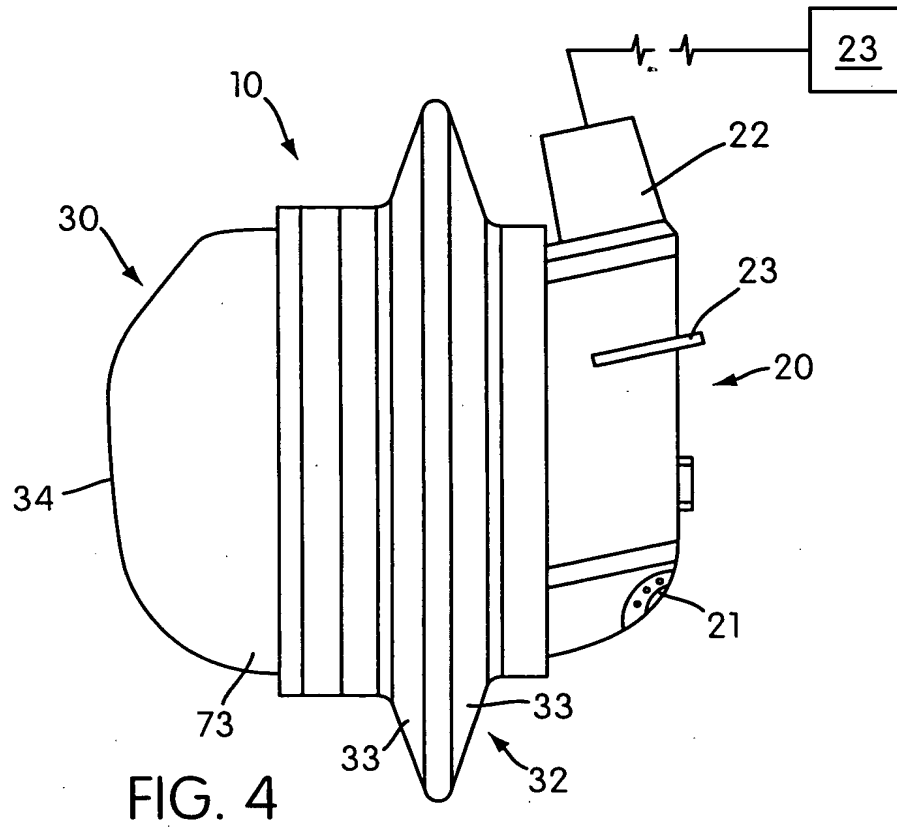


FIG. 3



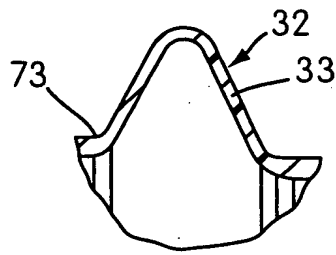


FIG. 6

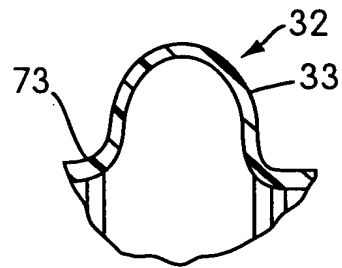


FIG. 7

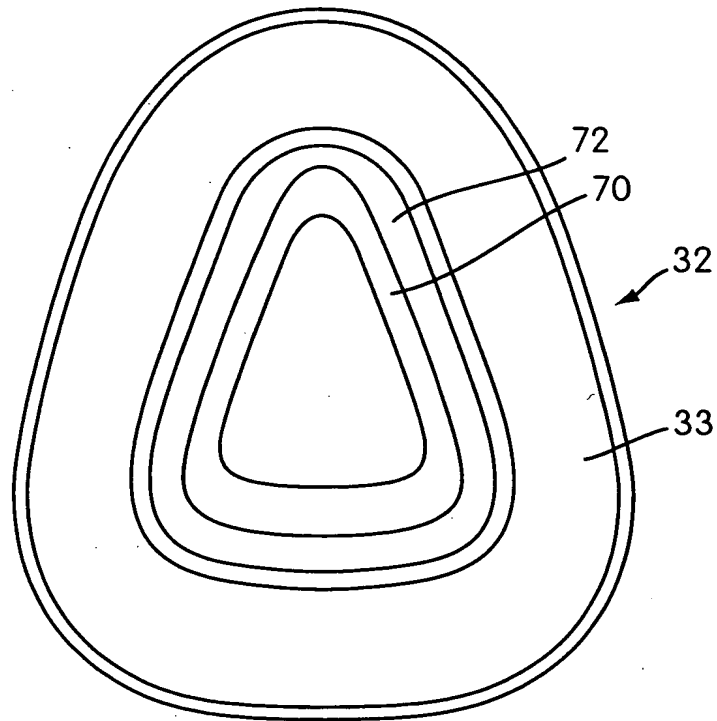


FIG. 8

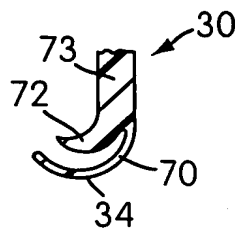


FIG. 9

$$F_M = P(A_g - kX) = 2F_S \cos \theta = F_c + F_{Ac}$$

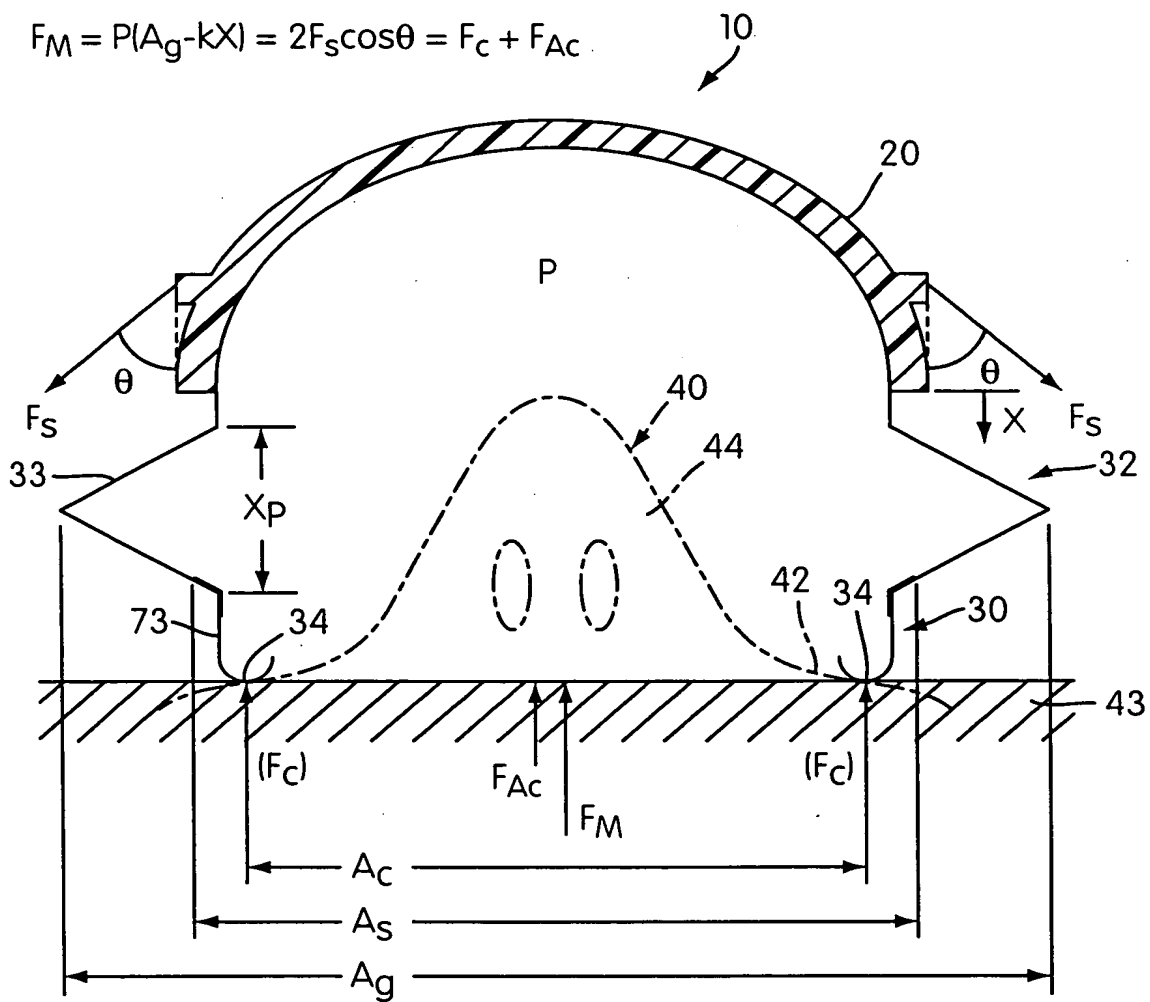
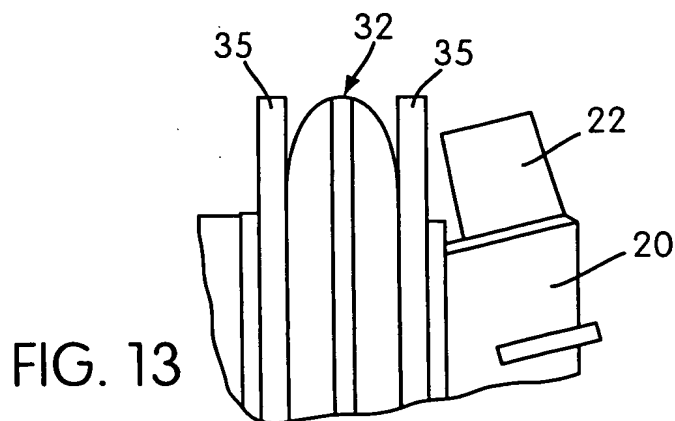
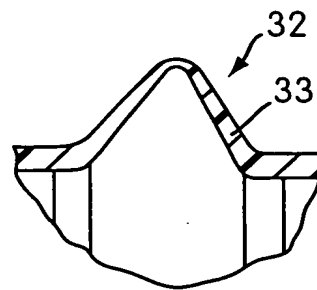
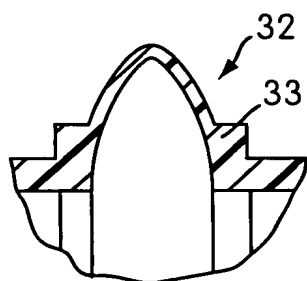
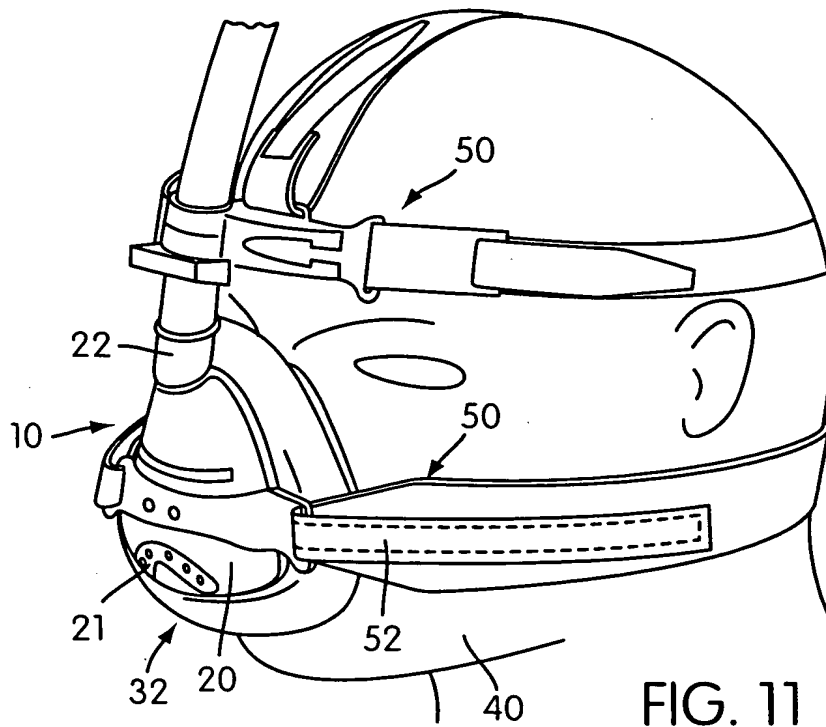


FIG. 10



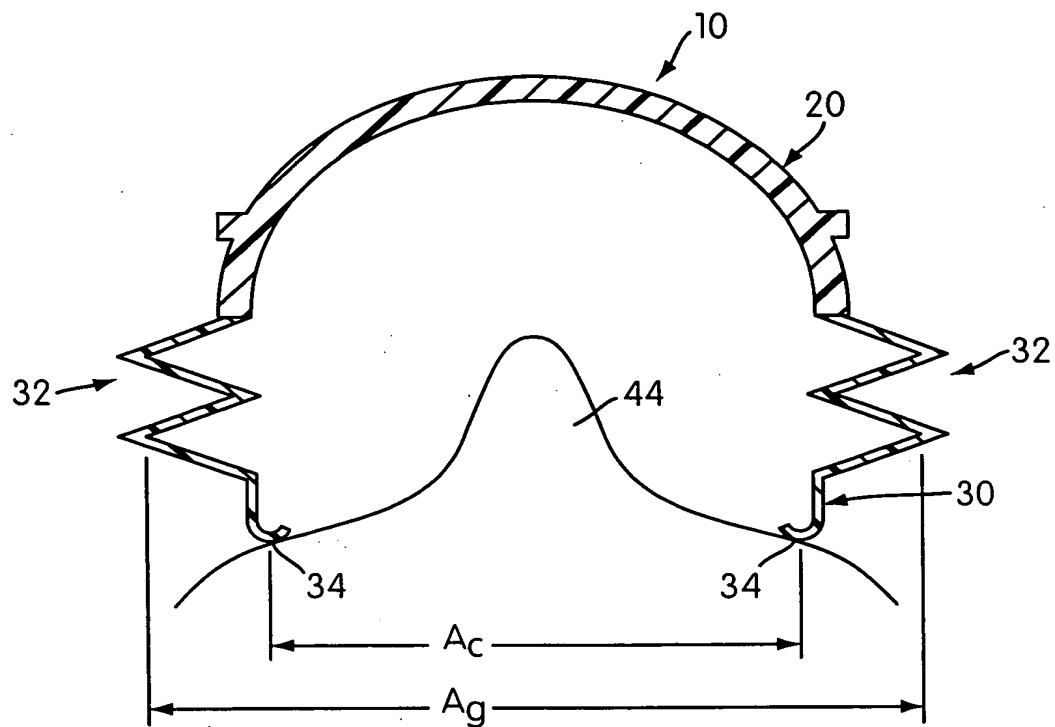


FIG. 15

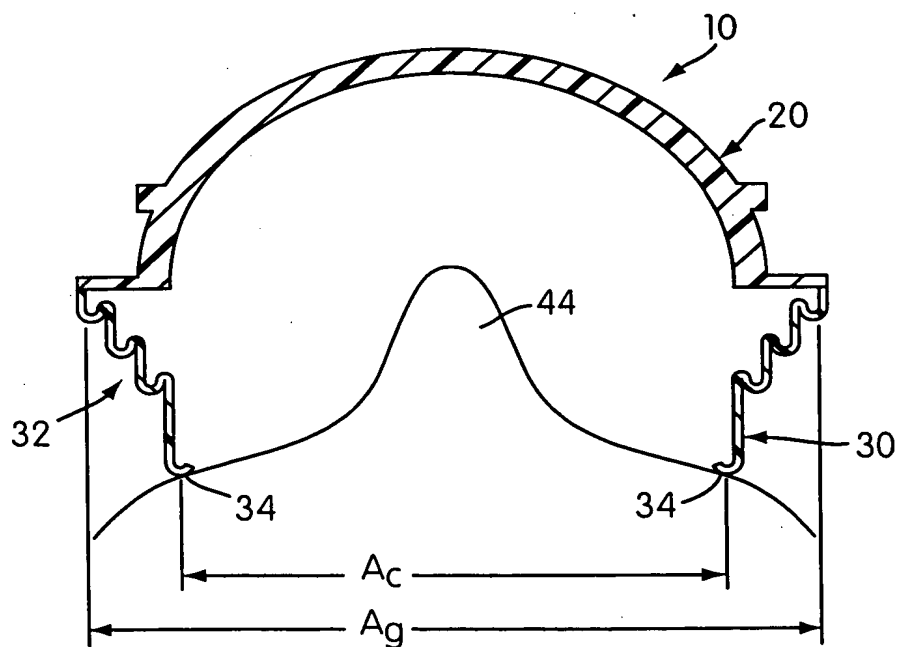


FIG. 16

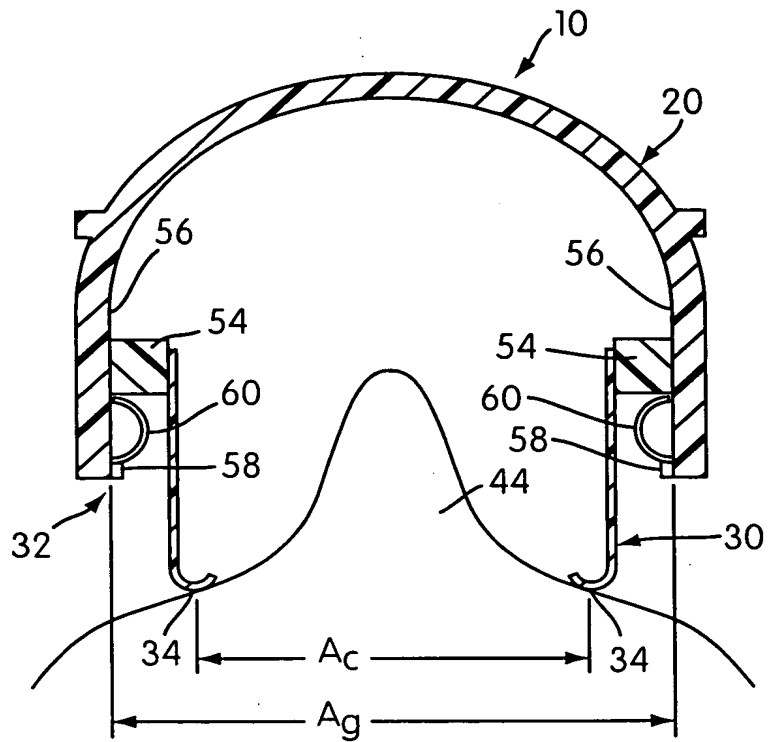


FIG. 17

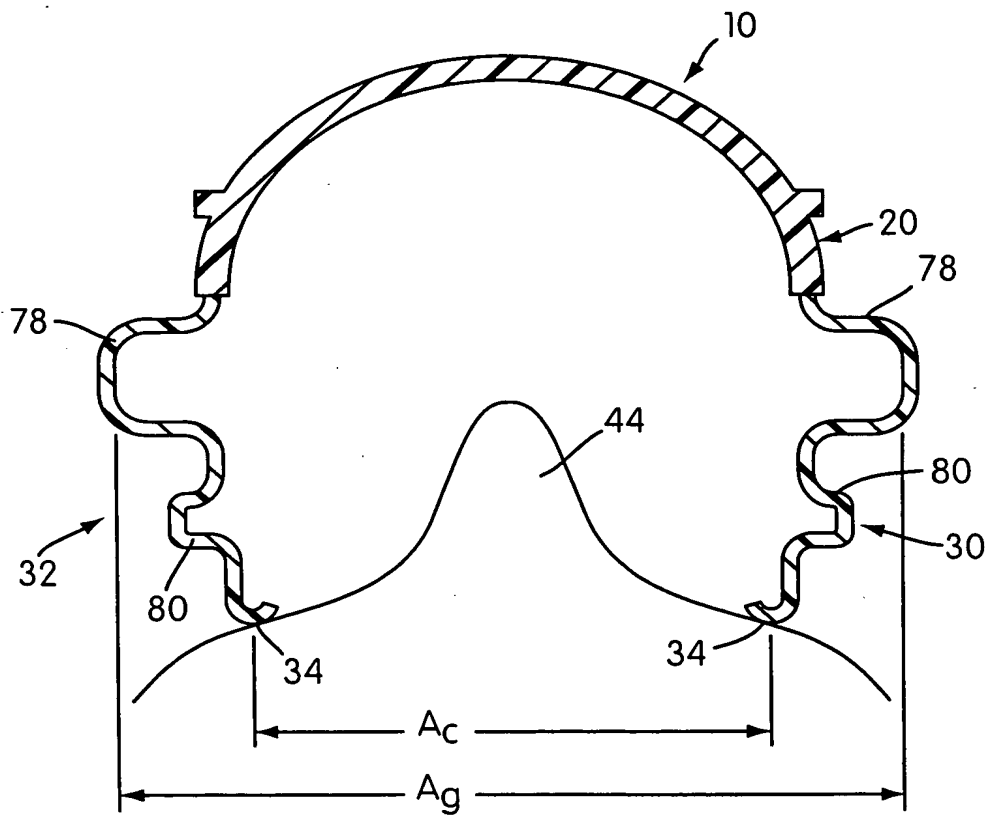


FIG. 18

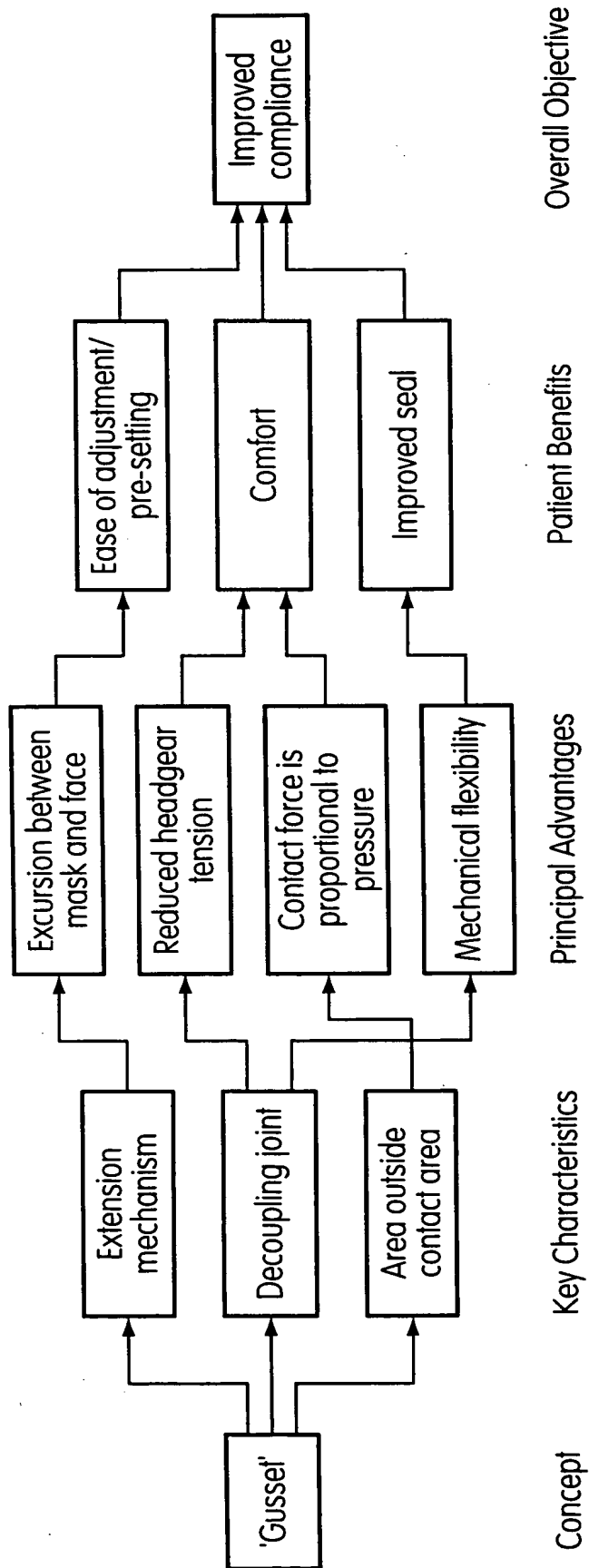


FIG. 19

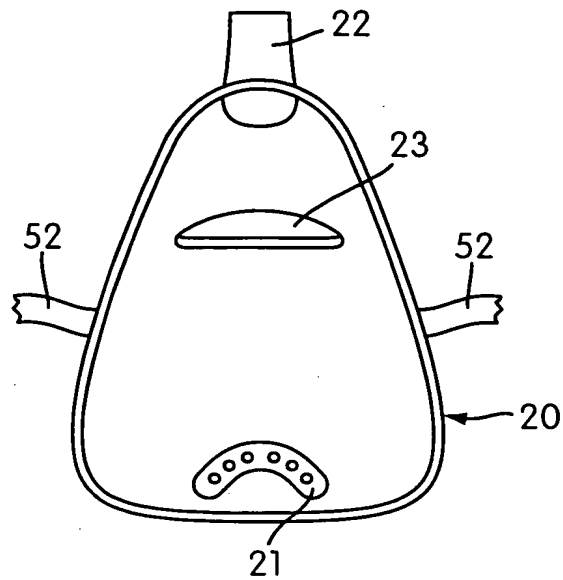


FIG. 20

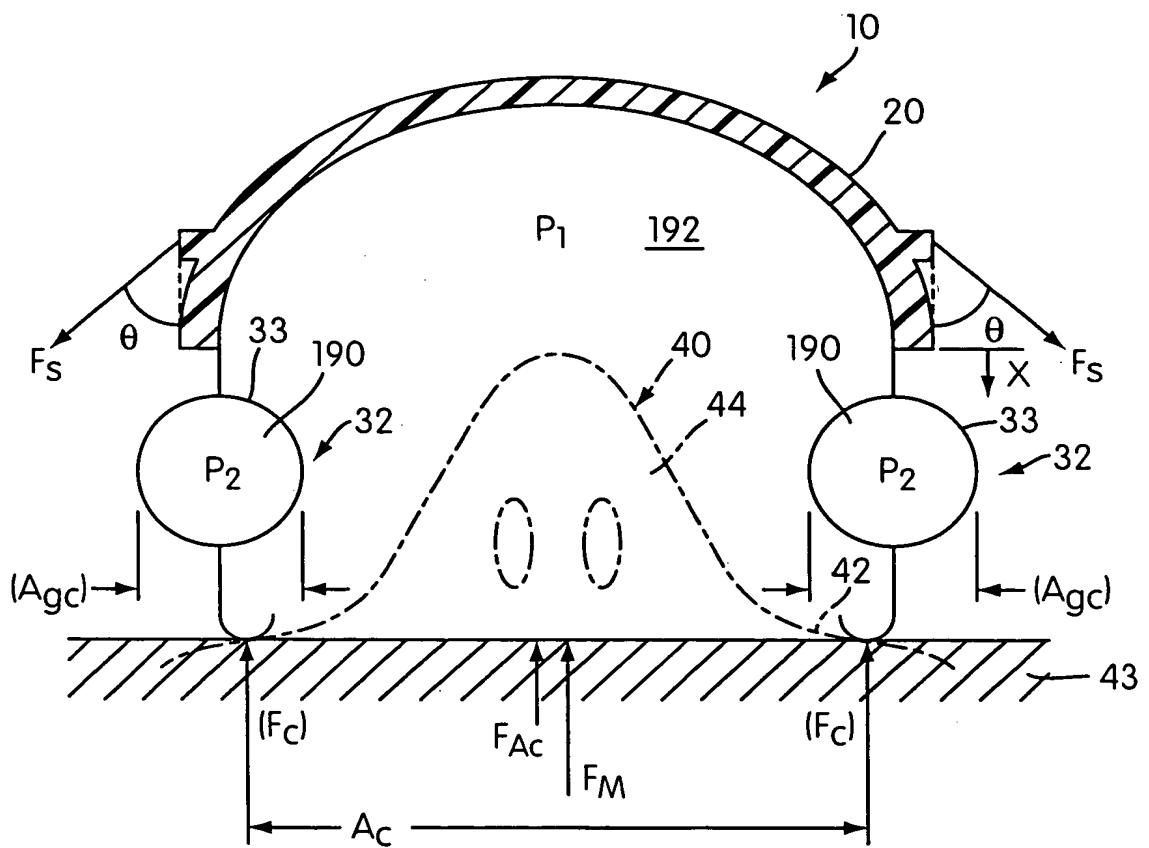


FIG. 21

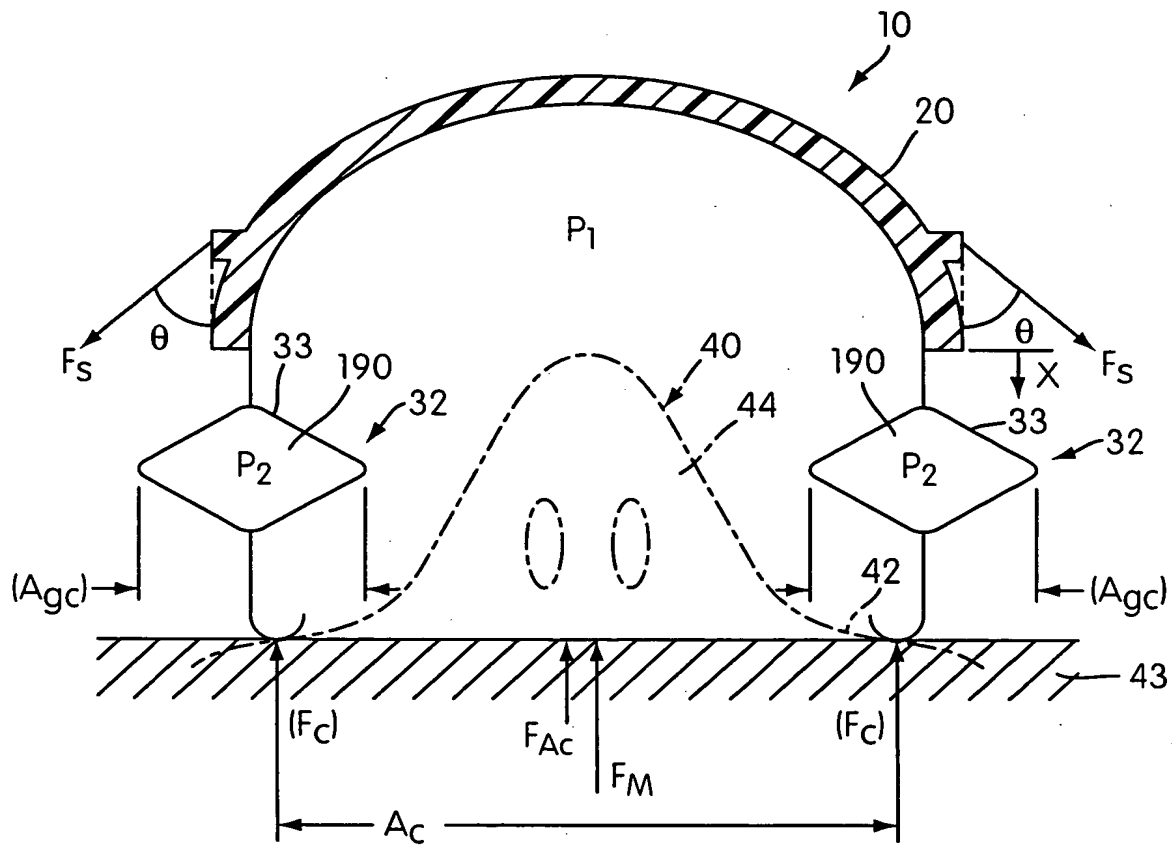


FIG. 22

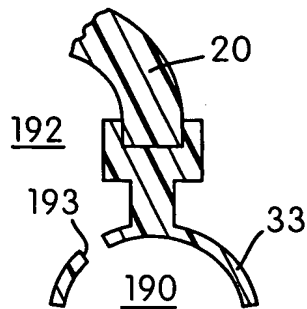


FIG. 23

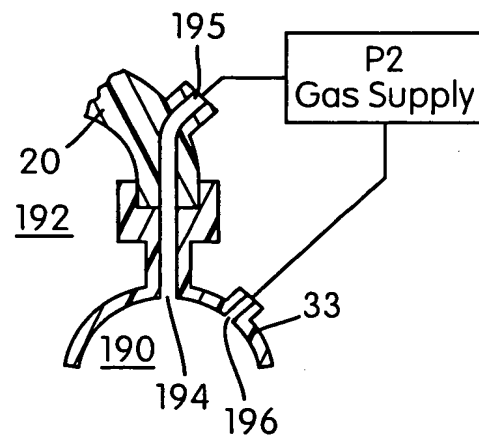


FIG. 24

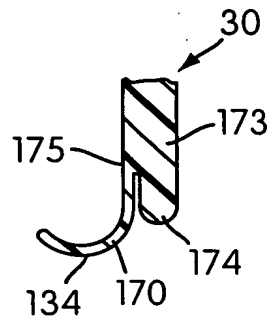


FIG. 25

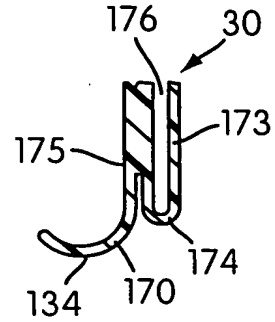


FIG. 26

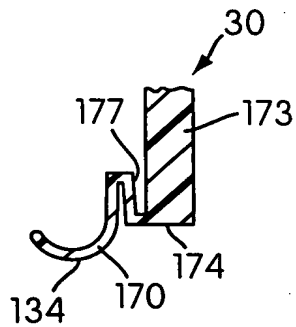


FIG. 27

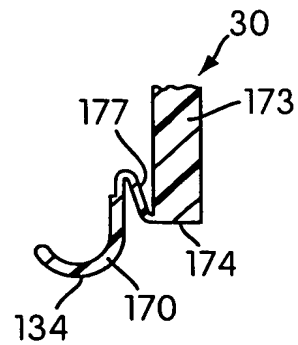


FIG. 28

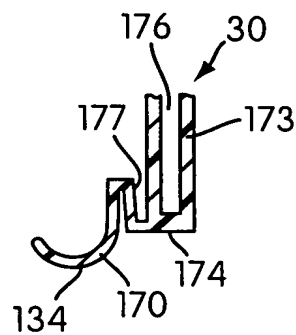


FIG. 29

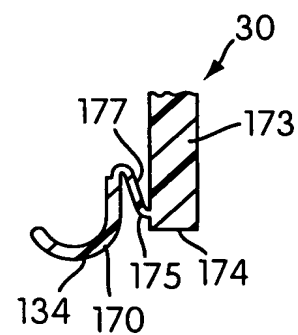


FIG. 30